

## APPENDIX D

## DATA PREPARATION AND HANDLING

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## APPENDIX D

## DATA PREPARATION AND HANDLING

## D.1 Introduction

This appendix describes the procedures used to submit and resubmit STRUDL and STRUBAG problems to the computer. STRUDL jobs are processed on an individual job basis. Individual jobs are used because the dynamic core memory allocation capability of the ICES System allows us to specify a variable amount of computer space in core for each STRUDL job. Thus, the amount of computer space can be varied in accordance with the size or number of degrees of freedom of the structure being analyzed.

Initial STRUDL input statements may be coded on the ICES form DAS-CS-329(Rev. 1/1/78), attached to the "BRIDGE JOB CONTROL" form and submitted for key data entry and batch processing.

Initial STRUBAG input statements may be coded on the STRUBAG input form DS-D175 thru 178, (refer to Appendix E), these are attached to the "BRIDGE JOB CONTROL" form and submitted for key data entry and batch processing.

STRUBAG and STRUDL input data may also be entered initially from a VM/CMS Terminal by the user.

All input data is stored in the users VM/CMS account as filetype STRUDL or STRUBAG. These files are updated and changed and subsequent jobs processed directly from the VM/CMS terminal.

STATE OF CALIFORNIA - BUSINESS AND TRANSPORTATION AGENCY - DEPARTMENT OF TRANSPORTATION - DIVISION OF ADMINISTRATIVE SERVICES	
<b>COMPUTER SYSTEMS</b>	
<b>ICES</b>	
ADDRESS DIST. GROUP DIST. UNIT	ADDRESS DIST. GROUP DIST. UNIT
64 65 66 67 68 69 70 71 72	

SYSTEM NAME	SOURCE	CHANGE	EXPENDITURE AUTHORIZATION	SPECIAL DESIGNATION WHEN APPLICABLE	SEQUENCE
DIST.	DIST.	DIST.	DIST.	DIST.	DIST.
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102

Enter your DIST, GROUP and BATCH at the top of each sheet. Each line must have a sequence number entered in columns 73 thru 76 in the order you wish to have your initial STRUDL commands processed. The subsystem command STRUDL may be entered on line 0001 or the user may enter this command on the line following if he wishes to use the optional problem title which allows a maximum of 64 characters. A good technique to develop in sequencing each line is to increment by 10, allowing for additions. The completed ICES forms are stapled behind the "BRIDGE JOB CONTROL" form and submitted to key data entry.

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DEPARTMENT OF TRANSPORTATION  
BRIDGE JOB CONTROL  
DN-OSD 149 (REV 1/74)

**BDEJCL**

PROGRAM NAME	PRIORITY	SOURCE		CHARGE		EXPENDITURE AUTH.	SPECIAL DESIGNATION (USE WHEN APPLICABLE)	IDENTIFICATION			PROBABILITY	FILE STATUS	FILE ADDRESS	REPORTING	PAYMENT	CORE REGION	TIME	PROJECT	COMMENTS (NAME)	SC NO
		DIST	UNIT	DIST	UNIT			DIST	GROUP	BATCH										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126
127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147
148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189
190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231
232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252
253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273
274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294
295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315
316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336
337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357
358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378
379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399
400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441
442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462
463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480			

## USER INSTRUCTIONS

D.3 BRIDGE JOB CONTROL (shown above) for STRUDL and STRUBAG (Form DS-D149) Required one-sheet cover page for initial batch submittals.

Columns	1 - 4	Program name, enter STRU
	6 - 7	Leave blank for Structure Design routing; otherwise, enter print location.
	9 - 24	Enter REQUIRED accounting information.
	25 - 33	Enter optional accounting information.
	35 - 42	Enter Required identification (district-group-batch-prob).
	48 - 53	Enter File Address (REQUIRED). Use a unique name (up to 6 alpha or numeric characters)
	55 - 56	Not Used
	58	PARM 0, blank
		Write STRUDL to a VM file AND EXECUTE STRUDL.
	1	Write STRUDL to VM only.
	6	Write STRUBAG and STRUDL to a VM file and EXECUTE STRUDL.
	8	Write STRUBAG and STRUDL to a VM file only.

60 - 62	Enter REGION in Kilobytes.	
If left blank and PARM 0, blank	Default Region =	350
1	Default Region =	350
6	Default Region =	960
8	Default Region =	256

64 - 65    Enter estimated max. CPU time in min.  
(Default = 5 minutes)

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67      Plots      Y or 1 - 30 inch blank paper
                        2   - 30 inch grid paper
                        3   - 12 inch blank paper
                        4   - 12 inch grid paper
                        For no plot, leave blank

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69 - 76 Enter comments (Name).

For questions see Structural and Seismic Anal. Sect., 445-1439.

#### D.4 STRUDL and STRUBAG VM FILES

VM FILES for STRUDL and STRUBAG input data created from batch submittals use the six character file address (Bridge Job Control Form) as the filename.

The VM FILES are directed to the users reader and must be received by the user at logon time. Files are then retained in the user account with no expiration date until deleted by the user.

#### D.5 Execution and Printing of STRUDL and STRUBAG VM FILES

Execution and printing of VM FILES is accomplished using either the VM/CMS system in real-time or in a batch mode on the Teale mainframe. STRUBAG runs in real time, STRUDL executes as a batch job. (See "STRUCTURES DESIGN VM/CMS SYSTEM USERS GUIDE" in the Computer Manual).